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THIRD ANNUAL REPORT

- FIFTH

OF THE

DEPARTMENT OF MINES AND MINERALS

OF THE

PROVINCE OF ALBERTA

FOR THE

Fiscal Year Ended March 31st

1952 - 1954

ISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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1953

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To the Honourable J. J. Bowlen,
Lieutenant Governor of the Province of Alberta.

SIR:

I have the honour to submit the Report of the Department of Mines and Minerals for the fiscal year ended March 31st, 1952.

I have the honour, to be, Sir,

Your obedient servant,

ERNEST C. MANNING,
Minister of Mines and Minerals.

Edmonton, December 2nd, 1952.

2227120

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CHIEF OFFICERS
DEPARTMENT OF MINES AND MINERALS

March 31st, 1952

Hon. N. E. Tanner ..... *Minister*
I. N. McKinnon ..... *Deputy Minister*
H. H. Somerville ..... *Assistant Deputy Minister*
N. A. Macleod ..... *Solicitor*
C. W. Jackman ..... *Statistician*
W. E. Shillabeer ..... *Administrative Accountant and Personnel Officer*

MINERAL RIGHTS DIVISION

H. H. Somerville ..... *Director*
R. A. Seaton ..... *Assistant Director*
D. F. Morrison ..... *Supervisor of Leases and Mining Recorder—Edmonton District*
A. Z. Choquette ..... *Mining Recorder—Calgary District*
A. E. Kynnersley ..... *Supervisor of Revenue*

MINES DIVISION

J. Crawford ..... *Director*
J. A. Dutton ..... *Assistant to Director*

MINERAL TAXATION DIVISION

E. F. Gilker ..... *Chief Assessor*
R. T. Newsome ..... *Assessor—Northern District*
V. L. Scott ..... *Assessor—Southern District*

TECHNICAL DIVISION

H. B. Grove ..... *Superintendent*
J. M. Novak ..... *Chief Draughtsman*

GEOLOGICAL DIVISION

M. B. Crockford ..... *Chief Geologist*

RIGHT OF ENTRY ARBITRATION ACT
BOARD OF ARBITRATORS

N. G. Meldrum ..... *Chairman*
A. Clark ..... *Member*
P. J. Skrypnyk ..... *Secretary*

THIRD ANNUAL REPORT

of the

Department of Mines and Minerals

HONOURABLE ERNEST C. MANNING,
Minister of Mines and Minerals,
Edmonton, Alberta.

Sir:

I have the honour to present the Annual Report of the Department of Mines and Minerals for the fiscal year ending March 31st, 1952.

During the year revenues derived from the development of natural resources administered by this Department continued to contribute substantially to the economic welfare of the province. The surplus of $40,858,596.27 on income account for the year, was derived principally from petroleum and natural gas rentals, fees, royalties and the disposal of crown reserves. The fact that only three Crown reserve sales were held, compared with five in the previous year, was responsible for a decrease of $5 million. Royalties collected on oil and natural gas increased from $4,760,-569.46 in the fiscal year 1950-51 to $10,062,772.17. This increase is attributable to the increased royalties that became effective June 1st, 1951 and to expanded oil markets.

Development of these resources brought other economic benefits to our province during the year. Two new refineries went into operation in the Edmonton area. Work was started on a chemical plant to utilize waste refinery gases and liquid petroleum gases from the natural gas conservation plant at Devon.

Plans were made for the construction of a plant to use the relatively high percentage of ethane in Leduc natural gas for the production of polythene, a scarce and versatile plastic. The first Canadian production of elemental sulphur from natural gas was started during the year at Jumping Pound. Recovery is one ton of pure sulphur per million cubic feet of gas and averages 30 tons per day. Construction was commenced on a similar plant at Turner Valley.

Other significant events of the year concerned the provision of new markets for crude oil. During April, the first Alberta crude was delivered to Ontario refineries. Later in the year, a refinery at the lake terminal of the pipeline at Superior, Wisconsin, became the first American refinery to use Alberta crude. In Alberta, additional fields were connected to market by the

extension of existing pipelines and the construction of new ones. Fields affected were Acheson, Excelsior, Joseph Lake and Wizard Lake.

Coal production continued to decline due to the loss of markets. This trend resulted in the closing of a number of subsurface mines and a considerable increase in the percentage of coal mined by strip methods.

Legislation

The first week of the year saw the Legislative Assembly pass some Acts affecting mines and minerals. The Gas Export Act was passed authorizing The Petroleum and Natural Gas Conservation Board with the approval of the Lieutenant Governor in Council to grant a permit for the removal of gas from the Pakowki Lake area for use in the operation of the Anaconda Copper Mining Company in Montana. The Sand and Gravel Act was passed providing that the owner of the surface of the land is the owner of the sand and gravel on the surface and the sand and gravel obtained by stripping, excavating or other surface operations. The amendment to The Mines and Minerals Act authorized regulations governing the granting of licenses of natural gas rights, the property of the Crown. Other amendments to The Mines and Minerals Act of a minor nature were made, and similarly amendments of a minor nature were made to The Oil and Gas Conservation Act, 1950.

The end of the fiscal year saw the Legislative Assembly continuing its 1952 session, and it had before it bills to replace with new improved Acts, The Pipe Lines Act and The Right of Entry Arbitration Act. Other bills before the Legislative Assembly at that time would provide for amendments of The Quarries Regulation Act, The Oil and Gas Resources Conservation Act, 1950, The Mines and Minerals Act and the provisions of The Mechanics' Lien Act which affect minerals.

Regulations

Effective June 1st, 1951, new petroleum and natural gas royalty regulations were established replacing the royalty provisions that had been in force during the preceding ten years and providing new regulations to be effective for a period of ten years and thereafter until changed by Order of the Lieutenant Governor in Council. The royalty with respect to crude petroleum was changed to a royalty on a sliding scale applicable to all wells on Crown disposals, running from five per cent to sixteen and two-thirds per cent depending on the monthly production of the well in barrels. The royalty on other fluid hydrocarbons and sulphur was set at twelve and one-half per cent and on natural gas or residue gas sold or usefully consumed, fifteen per cent, with a floor of three-quarters of one cent per thousand cubic feet.

In January, 1952, regulations were passed governing geophysical exploration and exploratory operations for minerals on public lands, statutory road allowances, public highways or

roadways, replacing the regulation which had been established in July, 1950. As was the case with the earlier regulations, the new regulations affect highways and public lands and were established jointly with the Highways Department and the Department of Lands and Forests to satisfy their requirements as well as those of the Department of Mines and Minerals.

During the year other regulations established pursuant to The Mines and Minerals Act were amended as to some of the details of the regulations. These were the schedule of fees and the regulations governing the reservation of petroleum and natural gas rights, the property of the Crown for geological or geophysical examination or for drilling of wells for geological information.

Two Orders in Council were passed during the year which affected regulations made pursuant to The Coal Mines Regulation Act. The first affected the regulation made pursuant to that Act by prescribing measures to be taken where underground workings approached a bore hole or well drilled for the recovery of petroleum, natural gas or other minerals. Another Order in Council amended the strip mine regulations and these latter amendments require stricter safety measures to be taken where the stripping operation is conducted above underground operations.

During the year Messrs. H. Ingrey, H. A. MacLean, J. Ramsay and E. H. Morgan were retired on pension.

Detailed reports of the separate divisions follow.

All of which is respectfully submitted.

H. H. SOMERVILLE,
Deputy Minister.

December 1st, 1952.

ALBERTA PETROLEUM AND NATURAL GASOLINE PRODUCTION IN BARRELS OF THIRTY-FIVE IMPERIAL

YEAR	ACHESON 36° API	ARMENA 38° API	ARMISIE 36° API	BASHAW 34° API	BIG VALLEY 27-30° API	BON ACCORD 36° API	BONNYVILLE 39° API	CAMPBELL 31-35° API	CAMROSE 38° API	CONRAD 26° API	DEL BONITA 39-40° API	DUHAMEL 34° API	ELLERSLIE 35° API	EXCELSIOR 37° API	GLEN PARK 40° API	GOLDEN SPIKE 38° API	JOSEPH LAKE 38° API	JUMPING POUND 52° API	JUMPING POUND Natural Gasoline	LEDUC Natural Gasoline	LEDUC 39° API	LLOYDMINSTER 10-20° API	NORMANDVILLE 30° API	NEW NORWAY
1914-24																								
1925																								
1926																								
1927																								
1928																								
1929																								
1930																								
1931																								
1932											562													
1933											546													
1934											561													
1935											195													
1936											1,480													
1937																								
1938											615													
1939											2,073												348	
1940											3,444												1,648	
1941											4,393												416	
1942											1,653												477	
1943											1,882												2,640	
1944										24,732	9,366												6,296	
1945										143,690	4,091							3,471					28,321	
1946										212,645	2,064							2,428					76,187	
1947										202,920	4,312							2,619						
1948										179,627	8,433							741			372,427	304,236		
1949						9,676		4,685		139,728	7,365			1,616		85,081	35,858				4,657,371	648,055		
1950	51,393				10,215	9,629		60,012		110,062	12,582		570	272,186		292,878	168,855	362		15,022	9,688,784	716,941	5,891	
1951	918,158	16,856	25,293	11,318	155,580	14,717	10,184	60,436	46,222	142,497	30,344	184,582	20,774	723,005	22,443	640,972	727,936	41,936	13,657	43,597	10,589,472	809,801	28,200	
TOTAL	969,551	16,856	25,293	11,318	165,795	34,022	10,184	125,133	46,222	1,155,917	95,961	184,582	21,344	996,807	22,443	1,018,926	932,649	51,557	13,657	58,619	39,051,166	3,495,835	50,467	

VE IMPERIAL GALLONS

NORMANDVILLE 30° API	NEW NORWAY 32-40° API	PRINCESS 25-33° API	PINCHER CREEK 53-54° API	REDWATER 35° API	STETTLER 24° API	TABER 18° API	TURNER VALLEY Natural Gasoline	TURNER VALLEY 33-64° API	VERMILION 14° API	WAINWRIGHT 12° API	WHITELAW 28° API	WHITEMUD 37° API	WIZARD LAKE 40° API	OTHER FIELDS	TOTAL	VALUATION
							30,501	69,722							100,223	$ 411,667
							8,951	171,934							180,885	717,271
							7,283	206,334		5,981					219,598	914,707
							5,854	323,403		2,526				529	332,312	1,529,477
								481,358		7,952				222	489,532	1,727,824
								981,592		12,332				5,599	999,523	3,024,021
								1,366,999		9,739				59,521	1,436,259	4,557,473
								1,372,246		7,142				75,428	1,454,816	3,977,788
								876,274		7,003				34,315	918,154	2,606,907
							185,781	790,670		5,276				30,511	1,012,784	2,694,310
							414,324	818,447		11,779				20,938	1,266,049	3,031,446
							496,681	730,354		14,638				22,100	1,263,968	2,856,029
							602,360	684,959		15,057				16,572	1,320,428	2,918,730
						600	657,169	2,109,559		13,459				16,087	2,796,874	4,913,960
						15,098	531,434	6,159,704		12,985				23,265	6,743,101	8,639,488
		515				3,720	296,787	7,259,494	202	11,624				18,729	7,593,492	9,289,580
							274,172	8,180,325	10,817	7,527				17,274	8,495,207	10,503,249
		19,587				5,600	293,122	9,537,221	22,051	11,733				14,520	9,908,643	13,809,708
		10,478				29,819	302,216	9,701,719	56,258	14,510				18,605	10,136,296	15,517,266
		340				88,735	461,169	8,991,528	93,258	18,136				16,860	9,674,548	15,724,518
		13,815				148,638	448,186	7,878,128	234,603	17,154				7,807	8,788,726	14,468,061
		63,377				135,000	412,540	7,009,521	238,358	16,472				593	8,055,440	13,169,692
		64,953				206,925	434,210	5,937,362	183,946	15,114				2,698	9,138,532	14,348,069
		106,920				205,236	427,225	5,022,350	138,401	18,325				4,304	6,809,284	18,078,907
		186,393	2,241	36,875		201,527	468,655	4,432,084	112,331	17,131				24,360	10,973,583	34,127,751
5,891		121,227	2,319	4,793,491	15,725	150,746	477,446	3,826,543	86,933	16,086		26,506		33,745	20,246,392	58,999,936
28,200		122,909		10,745,538	246,198	114,916	431,362	3,344,007	49,041	15,360	6,206	45,437		42,474	27,594,676	82,216,492
16,376	20,664	92,189	24,677	23,177,607	606,068	182,449	457,773	2,952,307	44,557	14,238	2,241	25,803	190,595	128,773	46,430,411	118,483,435
50,467	20,664	802,703	29,237	38,753,511	867,991	1,489,009	8,125,201	101,216,144	1,271,317	319,279	8,447	97,746	190,595	632,588	202,379,736	$464,657,770

Mineral Rights Administration

Report of Director of Mineral Rights,

J. W. Patrick

The third year of administration by the Department of Mines and Minerals has seen the development of the mineral resources of the Province reach new records of achievement.

Footage drilled for petroleum and natural gas during 1951 was 5,562,665 feet, an increase of 1,232,467 feet over 1950. The production of crude oil increased to 45,915,384 barrels exceeding the production of 1950 by 18,766,152 barrels. There were eight new fields discovered and the average daily rate of production possible increased by 50,000 barrels to 245,000 barrels but because of inadequate markets the average daily oil produced was only 122,400 barrels, an increase of 55 per cent over the previous year. The number of producing oil wells increased from 1,995 to 2,738.

Production of coal in Alberta in 1951 decreased by 456,930 tons. Underground mines were most affected by the reduction in output and while the number of strip mines in operation dropped from 99 to 76, the tonnage mined by this method was reduced by only 269,240 tons.

The production and value of Alberta's chief minerals for 1951 were petroleum, 45,915,384 barrels, valued at $116,819,581; coal, 7,661,276 tons, valued at $41,000,953; natural gas *63,199,269 Mcf., valued at $3,159,963; and salt, 19,581 tons, valued at $599,820.

Mineral rights, solid, liquid and gaseous, the property of the Crown in the right of the Province, are not sold, but are disposed of by lease, reservation, license, permit or other agreement for limited periods of time. Revenue is obtained from fees, rentals, bonuses, royalties, sales of leases and tax on assignments and subleases. During the fiscal year these sources provided a revenue of $40,628,885.55 being a decrease of $4,415,092.09 from the previous year. Sales of leases and reservations in Crown reserves were held on three occasions while five sales were held in the previous fiscal year and the revenue from this source declined sixteen million dollars.

The Province is divided into two mining districts: the Edmonton district comprises that portion of the Province lying to the north of the north boundary of Township 42 and the balance of the Province lying to the south is contained in the Calgary district.

During the year 6,082 applications for mineral rights were filed at the offices of the Mining Recorders in Edmonton and Calgary and at the office of the Department in Edmonton.

*Includes only marketed and consumed gas.

Numerous inquiries were made as to the availability of mineral rights, mostly for petroleum and natural gas leases and reservations by personal application and by correspondence.

A special mineral lease was issued to Imperial Oil Limited on River Lot 45 Edmonton Settlement at an annual rental of $800.00. The area comprised in the lease forms a portion of the company's refinery site at Edmonton.

The Sand and Gravel Act came into force on April 7, 1951 providing that the owner of the surface of land was the owner of all sand and gravel on the surface and all sand and gravel obtained by excavating from the surface. Consequently the administration of sand and gravel leases was transferred to the Department of Lands and Forests and the leases so transferred are indicated as cancelled in our tabulation.

During the year under review 5,995 leases and 370 reservations were issued and a tabulation follows showing the number and acreage of the various leases.

MINERAL RIGHTS LEASES

Type of Lease	Active at April 1, 1951	Issued	Reinstated	Divided	Cancelled	Renewed Active at March 31, 1952
Petroleum and Natural Gas	10,426	5,899	14	268	946	3	15,658
Coal	655	39	....	3	71	7	619
Road Allowance Coal	122	33	....	....	11	9	135
Quarrying	64	5	....	....	52	....	17
Sand and Gravel	7	....	....	....	7	....	....
River Sand and Gravel	42	18	....	....	60	....	....
Salt	2	....	....	....	....	....	2
Bituminous Sands	1	....	....	....	....	....	1
Miscellaneous	1	1	....	....	....	....	2
TOTAL	11,320	5,995	14	271	1,147	19	16,434

ACREAGE CONTAINED IN ABOVE LEASES

Type of Lease	Active at April 1, 1951	Issued	Reinstated	Cancelled	Renewed	Active at March 31, 1952
Petroleum and Natural Gas	6,350,072	5,752,571	4,508	1,201,962	3,960	10,901,229
Coal	187,755	3,897	.....	18,831	386	172,435
Quarrying	2,494	357	.....	520	.....	2,331
Sand and Gravel	175	.....	.....	175	.....	.....
Salt	1,204	.....	.....	.....	.....	1,204
Bituminous Sands	3,898	.....	.....	.....	.....	3,898
Miscellaneous	3,840	162	.....	480	.....	3,522
TOTAL	6,549,438	5,756,987	4,508	1,221,968	4,346	11,084,619

STATEMENT OF BUSINESS TRANSACTED, 1951-52

PETROLEUM AND NATURAL GAS

	Number	Acres
Leases issued	5,899	5,752,571
Leases cancelled and relinquished	946	1,201,962
Leases reinstated	14	4,508
Prospecting reservations granted	370	21,482,815
Prospecting reservations terminated	199	14,572,715
Natural Gas Licenses issued	38	2,615,865
Natural Gas Licenses cancelled and relinquished	10	836,108
Fees, rentals and bonuses collected	$15,328,599.80	
Royalties collected	11,038,089.37	
Crown reserve sales	13,211,288.97	
TOTAL	$39,577,978.14	

COAL

	Number	Acres
Leases issued	39	3,897
Leases cancelled and relinquished	71	18,831
Road Allowance Leases		
Leases issued	33	
Leases cancelled and relinquished	11	
Fees and rentals collected	$215,343.94	
Royalties collected	437,410.85	
TOTAL	$652,754.79	

QUARRYING

	Number	Acres
Quarrying leases issued	5	357
Quarrying leases cancelled and relinquished	52	520
Fees and rentals collected	$ 3,043.38	
Royalties collected	28,405.86	
TOTAL	$31,449.24	

MISCELLANEOUS

	Number
Bituminous sands permits renewed	1
Permits to collect bitumen renewed	1
Quartz	
Claims recorded	40
Certificates of Work issued	19
Certificates of Partnership issued	1
Powers of Attorney filed	2
Placer	
Claims Recorded	9
Renewals issued	2
Powers of Attorney filed	....
Sulphur permits issued	1
Sulphur permits renewed	1
Special mineral leases issued	1
Geophysical licenses issued	231
Permits to operate Geophysical Equipment	40
Fees, rentals, royalties and tax on assignments and subleases collected	$366,703.38

PETROLEUM AND NATURAL GAS

New royalty regulations came into effect on June 1, 1951 setting royalties for ten years on all products obtained from petroleum and natural gas wells located on Crown leases, reservations, licenses and other agreements. The royalty on crude petroleum oil is calculated on a sliding scale running from five to sixteen and two-thirds per cent depending on the monthly

production of the well in barrels. The royalty on other fluid hyrdocarbons and sulphur was set at twelve and one-half per cent and on natural gas or residue gas sold or usefully consumed, fifteen per cent, with a floor of three-quarters of one cent per thousand cubic feet.

Leases.—During the year 5,899 petroleum and natural gas leases were granted covering 5,752,571 acres and at the close of the fiscal year a total of 15,658 leases were in existence comprising an area of 10,901,229 acres.

The revenue received from fees amounted to $52,120.00. The revenue from lease rentals was $9,252,375.83 and the revenue from bonuses accepted by the Mining Recorders at sales of petroleum and natural gas leases by tender amounted to $771,601.60.

Disposal of Crown reserves.—Petroleum and natural gas rights comprised in Crown reserves may be disposed of by order of the Lieutenant Governor in Council and during the year 204 leases and five prospecting reservations were purchased, and particulars of these Crown reserve purchases are included in this report.

CROWN RESERVES PURCHASED IN LEDUC AREA

Description	Offer Accepted from:	Cash Purchase Price
N.W.¼ 32-48-25-4	Scurry Oils Limited	$ 79,830.00
S.W.¼ 32-48-25-4	Canadian Gulf Oil Company	75,059.20
S.E.¼ 6-49-25-4	Canadian Gulf Oil Company	150,087.59
S.W.¼ 6-49-25-4	Canadian Gulf Oil Company	100,059.20
S.E.¼ 1-51-26-4	Scurry Oils Limited	19,831.00
N.E.¼ 18-49-25-4	Leduc Consolidated Oils Limited	241,011.00
N.W.¼ 18-49-25-4	R. G. Price and W. Bruce Kippen	232,151.00
S.W.¼ 18-49-26-4	Admiral Oils Limited, Renfrew Petroleums Limited and Trans Empire Oils Limited	45,100.00
S.E.¼ 24-49-26-4	Great Plains Development Company of Canada Ltd. and Selburn Oil Company Limited	262,507.20
S.W.¼ 24-49-26-4	Great Plains Development Company of Canada Ltd. and Selburn Oil Company Limited	262,507.20
N.E.¼ 12-49-27-4	W. S. McGregor and J. M. Campbell	131,250.00
		$1,599,393.39

CROWN RESERVES PURCHASED IN WOODBEND AREA

Description	Offer Accepted from:	Cash Purchase Price
N.W.¼ 6-51-26-4	Imperial Oil Limited	$ 195,840.00
N.½ 24-51-26-4	Imperial Oil Limited	256,001.00
S.½ 24-51-26-4	Imperial Oil Limited	256,001.00
		$ 707,842.00

CROWN RESERVES PURCHASED IN REDWATER AREA

Description		Offer Accepted from:	Cash Purchase Price
N.E.¼	18-56-20-4	Scurry Oils Limited	$ 80,833.00
S.W.¼	18-56-20-4	Superior Oils Limited	125,111.00
N.W.¼	6-57-20-4	Dome Exploration (Western) Limited	569,009.00
S.W.¼	7-57-20-4	Superior Oils Limited	65,111.00
N.W.¼	10-56-21-4	The Bay Petroleum Corporation	227,345.15
S.W.¼	4-57-21-4	Hales H. Ross	225,478.60
N.W.¼	8-57-21-4	Dalhousie Oil Company Limited	52,530.00
N.E.¼	12-57-21-4	Scurry Oils Limited	185,831.00
S.E.¼	24-58-23-4	Scurry Oils Limited	50,830.00
N.W.¼	9-56-21-4	Admiral Oils Limited, Renfrew Petroleums Limited and Trans Empire Oils Limited	241,200.00
N.E.¼	11-56-21-4	The Bay Petroleum Corporation	217,720.20
N.W.¼	11-56-21-4	The Bay Petroleum Corporation	227,130.30
N.W.¼	12-56-21-4	The Bay Petroleum Corporation	87,666.66
N.E.¼	5-57-21-4	Ross and Sons Oil Limited	53,725.80
N.W.¼	9-58-22-4	Ross and Sons Oil Limited	43,940.00
S.E.¼	9-58-22-4	Deep Rock Oil Corporation	35,000.00
N.E.¼	19-58-22-4	Albercan Oil Corporation	331,160.67
S.E.¼	30-58-22-4	Oilands Petroleums Limited (N.P.L.)	36,210.00
			$2,855,832.38

CROWN RESERVES PURCHASED IN STETTLER AREA

Description		Offer Accepted from:	Cash Purchase Price
N.E.¼	28-38-20-4	Selburn Oil Co. Ltd.	$ 77,770.00
S.E.¼	28-38-20-4	Selburn Oil Co. Ltd.	157,777.07
			$235,547.07

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

Description		Offer Accepted from:	Cash Purchase Price
E.½	34-42-12-4	Hudson's Bay Oil and Gas Company Limited	$ 7,050.74
S.½	4-41-14-4	Hudson's Bay Oil and Gas Company Limited	9,955.20
W.½	22-49-15-4	W. B. Airth	3,202.26
E.½	34-49-15-4	W. B. Airth	3,822.36
N.½	22-38-16-4	Texaco Exploration Company	8,358.40
N.W.¼	34-38-16-4	Imperial Oil Limited	7,952.00
S.E.¼	34-38-16-4	Texaco Exploration Company	4,179.20

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description		Offer Accepted from:	Cash Purchase Price
N.W.¼	20-36-18-4	Cities Service Petroleum Company	5,160.00
S.E.¼	20-36-18-4	Cities Service Petroleum Company	8,536.00
Sec.	22-36-18-4	Cities Service Petroleum Company	36,246.00
N.E.¼	28-41-18-4	Texaco Exploration Company	9,801.60
E.½	16-42-18-4	Texaco Exploration Company	19,603.20
N.E.¼	31-34-19-4	Superior Oils Limited, Alberta Pacific Consolidated Oils Ltd. and Canadian Fina Oil Limited	17,511.00
S.W.¼	4-35-19-4	Superior Oils Limited, Alberta Pacific Consolidated Oils Ltd. and Canadian Fina Oil Limited	10,111.00
S.W.¼	6-35-19-4	Superior Oils Limited, Alberta Pacific Consolidated Oils Ltd. and Canadian Fina Oil Limited	16,111.00
W.½	12-36-19-4	Union Oil Company of California	8,022.40
S.E.¼	2-42-19-4	Texaco Exploration Company	9,801.60
N.½	5-34-20-4	Canadian Gulf Oil Company	20,204.50
S.½	17-34-20-4	Canadian Gulf Oil Company	7,625.00
N.E.¼	24-34-20-4	Superior Oils Limited, Alberta Pacific Consolidated Oils Ltd. and Canadian Fina Oil Limited	15,111.00
N.E.¼	32-34-20-4	Scurry Oils Limited	155,840.00
S.E.¼	32-34-20-4	Scurry Oils Limited	54,831.00
N.E.¼	35-34-20-4	Superior Oils Limited, Alberta Pacific Consolidated Oils Ltd. and Canadian Fina Oil Limited	16,111.00
S.W.¼	4-35-20-4	Scurry Oils Limited	202,841.00
N.W.¼	36-35-20-4	The Ohio Oil Company	4,819.20
N.E.¼	14-36-20-4	Canadian Gulf Oil Company	28,480.00
N.W.¼	24-36-20-4	Canadian Gulf Oil Company	5,125.00
S.½	6-44-20-4	Sun Oil Company	18,377.59
S.E.¼	6-48-20-4	Anglo-Canadian Oil Company Limited	16,484.80
S.W.¼	6-48-20-4	Anglo-Canadian Oil Company Limited	18,564.80
S.W.¼	31-57-20-4	Pacific Petroleums Ltd.	10,000.99
N.W.¼	4-58-20-4	Pacific Petroleums Ltd.	5,500.99
N.E.¼	5-58-20-4	Pacific Petroleums Ltd.	5,500.99
N.W.¼	13-32-21-4	Selburn Oil Co. Ltd.	17,777.70
S.W.¼	24-32-21-4	Selburn Oil Co. Ltd.	17,777.70
E.½	2-42-21-4	Seaboard Oil Company of Delaware	24,082.00
S.E.¼	12-42-21-4	Seaboard Oil Company of Delaware	12,045.00
W.½	20-44-21-4	Amerada Petroleum Corporation	38,372.04
N.½	11-49-21-4	Pacific Petroleums Ltd.	50,000.99
Sec.	31-50-21-4	Trans Empire Oils Ltd.	15,800.00
S.E.¼	36-57-21-4	Pacific Petroleums Ltd.	8,000.99
E.½	12-44-22-4	Canadian Superior Oil of California, Ltd.	113,022.00
N.E.¼	36-44-22-4	Canadian Superior Oil of California, Ltd.	76,160.00
N.E.¼	36-53-22-4	Imperial Oil Limited	7,003.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description	Offer Accepted from:	Cash Purchase Price
N.W.¼ 36-53-22-4	Imperial Oil Limited	7,003.00
S.E.¼ 36-53-22-4	Imperial Oil Limited	9,003.00
S.W.¼ 36-53-22-4	Imperial Oil Limited	9,003.00
N.W.¼ 34-60-24-4	The Ohio Oil Company	4,019.20
S.E.¼ 34-60-24-4	The Ohio Oil Company	4,019.20
N.E.¼ 24-40-25-4	The California Standard Company	12,800.00
S.W.¼ 24-40-25-4	The British American Oil Company Limited	8,536.00
N.W.¼ 30-48-25-4	Canadian Gulf Oil Company	24,019.55
S.W.¼ 30-48-25-4	Texaco Exploration Company	28,201.60
N.E.¼ 6-55-25-4	Imperial Oil Limited	25,762.00
N.E.¼ 26-48-26-4	Texaco Exploration Company	32,201.60
S.E.¼ 6-52-26-4	Union Oil Company of California	4,011.65
E.½ 8-57-26-4	Imperial Oil Limited	40,002.00
E.½ 20-57-26-4	Imperial Oil Limited	32,003.00
N.½ 4-48-27-4	The California Standard Company	51,271.00
S.E.¼ 10-51-27-4	Imperial Oil Limited	50,001.00
S.W.¼ 10-51-27-4	Imperial Oil Limited	75,003.00
N.W.¼ 12-69-27-4	Fortune Oils Limited	1,732.00
S.½ 4-38-28-4	Husky Oil & Refining Ltd.	6,569.88
L.S.'s 13 and 14 of Sec. 25 and S.W.¼ 36-55- 4-5	Anglo-Canadian Oil Company Limited	6,273.23
N.E.¼ 36-55- 4-5	Texaco Exploration Company	3,744.86
N.E.¼ 1-56- 4-5	Texaco Exploration Company	3,721.60
S.W.¼ 1-56- 4-5	Texaco Exploration Company	3,721.60
N.E.¼ 15-79-22-5	Imperial Oil Limited	5,003.00
S.E.¼ 15-79-22-5	Imperial Oil Limited	5,003.00
L.S.'s 1 and 2 of Sec. 36-49- 1-4	Husky Oil & Refining Ltd.	410.40
S.W.¼ 36-49- 1-4	Husky Oil & Refining Ltd.	820.80
N.W.¼ 17-43- 4-4	Gilbert McNeill Duggan Blackstock	1,627.71
N.W.¼ 20-43- 4-4	Gilbert McNeill Duggan Blackstock	2,113.93
S.E.¼ 20-43- 4-4	Gilbert McNeill Duggan Blackstock	1,708.21
N.½ 36-40-13-4	Canadian Superior Oil of California Ltd.	40,640.00
Sec. 20-49-18-4	Texaco Exploration Company	10,100.00
N.½ 21-29-19-4	Scurry Oils Limited	22,670.00
N.E.¼ 24-29-20-4	Great Plains Development Company of Canada Ltd.	113,761.61
N.E.¼ 26-29-20-4	Dome Exploration (Western) Limited	71,009.00
N.E.¼ 35-29-20-4	Scurry Oils Limited	94,829.00
S.E.¼ 35-29-20-4	Dome Exploration (Western) Limited	106,009.00
N.W.¼ 6-42-20-4	Seaboard Oil Company of Delaware	25,110.00
W.½ 4-47-20-4	Sun Oil Company	12,000.03
S.W.¼ 6-47-20-4	The California Standard Company	17,560.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description		Offer Accepted from:	Cash Purchase Price
S.½	12-47-21-4	Sun Oil Company	48,000.05
S.½	6-43-22-4	Sun Oil Company	13,800.06
N.E.¼	2-44-22-4	Scurry Oils Limited	27,829.00
N.E.¼	10-44-22-4	Scurry Oils Limited	31,829.00
S.E.¼	10-44-22-4	Sun Oil Company	56,367.97
N.W.¼	14-44-22-4	Sun Oil Company	80,017.97
S.W.¼	14-44-22-4	Sun Oil Company	80,017.97
S.E.¼	4-48-22-4	Imperial Oil Limited	17,920.33
N.E.¼	6-48-22-4	Sun Oil Company	9,920.08
N.W.¼	18-48-22-4	Sun Oil Company	12,000.09
L.S. 2 of Sec.	23-50-22-4	A. G. Bailey Co. Limited	153,907.00
Sec.	5-16-23-4	Phillips Petroleum Company	9,630.00
S.W.¼	19-16-23-4	Phillips Petroleum Company	3,200.00
W½	4-47-23-4	Seaboard Oil Company of Delaware	45,000.00
S.W.¼	6-47-23-4	Union Oil Company of California	8,021.11
N.E.¼	12-16-24-4	Phillips Petroleum Company	1,716.00
S.E.¼	2-47-24-4	Union Oil Company of California	4,113.14
S.W.¼	2-47-24-4	Sun Oil Company	1,610.13
N.E.¼	11-48-24-4	Texaco Exploration Company	26,400.00
N.W.¼	12-48-24-4	Texaco Exploration Company	26,400.00
S.E.¼	14-48-24-4	Texaco Exploration Company	26,400.00
S.½	10-41-25-4	The California Standard Company	63,333.00
N.½	11-41-25-4	The California Standard Company	63,333.00
N.E.¼	4-48-26-4	Imperial Oil Limited	26,011.07
W.½	10-48-26-4	Texaco Exploration Company	56,205.00
W.½	20-47-27-4	Texaco Exploration Company	353,125.00
S.E.¼	30-47-27-4	Texaco Exploration Company	76,135.00
N.W.¼	2-49-27-4	Texaco Exploration Company	25,125.00
N.W.¼	16-50-27-4	Pacific Petroleums Ltd. and Calvan Consolidated Oil & Gas Company Limited	9,201.01
S.W.¼	24-49-28-4	Texaco Exploration Company	11,185.00
W.½	22-55- 2-5	Placid Oil Company	4,320.00
N.W.¼	28-55- 2-5	Placid Oil Company	2,160.00
S.E.¼	28-55- 2-5	Placid Oil Company	2,160.00
Sec.	32-56- 3-5	Texaco Exploration Company	14,080.00
W.½	33-56- 3-5	Texaco Exploration Company	7,040.00
Sec.	2-57- 4-5	Texaco Exploration Company	23,680.00
N.½	14-57- 4-5	Texaco Exploration Company	11,840.00
N.½	15-57- 4-5	Texaco Exploration Company	11,840.00
N.½	16-57- 4-5	Texaco Exploration Company	7,040.00
N.½	5-29-19-4	Great Plains Development Company of Canada Ltd.	11,666.78
N.E.¼	18-29-19-4	Dome Exploration (Western) Limited	126,000.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description	Offer Accepted from:	Cash Purchase Price
N.W.¼ 18-29-19-4	Dome Exploration (Western) Limited	61,000.00
S.E.¼ 14-36-20-4	Shell Oil Company	112,200.00
S.W.¼ 24-36-20-4	Scurry Oils Limited	176,830.00
N.E.¼ 18-39-20-4	Canadian Gulf Oil Company	12,075.00
S.E.¼ 19-39-20-4	Canadian Gulf Oil Company	12,065.00
N.W.¼ 27-33-21-4	Imperial Oil Limited	18,532.00
S.W.¼ 34-33-21-4	Imperial Oil Limited	18,531.00
W.½ 18-42-21-4	Canadian Gulf Oil Company	48,640.00
S.E.¼ 36-48-21-4	Imperial Oil Limited	35,700.00
S.W.¼ 36-48-21-4	Imperial Oil Limited	56,200.00
N.W.¼ 10-49-21-4	Imperial Oil Limited	71,400.00
N.W.¼ 34-44-22-4	The British American Oil Company Limited	50,101.99
N.W.¼ 32-45-22-4	Imperial Oil Limited	23,524.00
E.½ 18-46-22-4	Imperial Oil Limited	67,581.00
N.½ 16-41-23-4	Pacific Petroleums Ltd.	12,101.01
E.½ 18-43-23-4	Calvan Consolidated Oil & Gas Company Limited	15,153.00
S.W.¼ 20-43-23-4	Calvan Consolidated Oil & Gas Company Limited	7,437.00
All 6-42-24-4	Calvan Consolidated Oil & Gas Company Limited	65,153.00
W.½ 18-47-24-4	Union Oil Company of California	59,706.00
N.½ 18-48-24-4	Selburn Oil Co. Ltd.	10,676.00
W.½ 20-48-24-4	Selburn Oil Co. Ltd.	10,676.00
S.½ 24-47-25-4	Union Oil Company of California	101,752.00
S.W.¼ 22-49-25-4	Merrill Canadian Oil No. 1 Limited	11,337.00
N.E.¼ 26-36-26-4	Calvan Consolidated Oil & Gas Company Limited	16,537.00
E.½ 34-36-26-4	Calvan Consolidated Oil & Gas Company Limited	34,257.00
All 10-45-26-4	Calvan Consolidated Oil & Gas Company Limited	45,483.00
S.E.¼ 16-50-27-4	The British American Oil Company Limited	30,101.99
S.W.¼ 16-50-27-4	The British American Oil Company Limited	161,101.99
S.E.¼ 1-51-27-4	Imperial Oil Limited	62,301.00
S.W.¼ 1-51-27-4	Imperial Oil Limited	16,532.00
N.W.¼ 2-52-27-4	Imperial Oil Limited	178,601.00
S.W.¼ 2-52-27-4	Imperial Oil Limited	178,601.00
E.½ 22-45-28-4	The Ohio Oil Company	108,012.00
W.½ 22-45-28-4	The Ohio Oil Company	92,012.00
E.½ 30-56- 3-5	Texaco Exploration Company	14,720.00
E.½ 31-56- 3-5	Texaco Exploration Company	7,375.00
W.½ 14-56- 4-5	Shell Oil Company	17,619.20
W.½ 23-56- 4-5	Selburn Oil Co. Ltd.	15,676.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description	Offer Accepted from:	Cash Purchase Price
W.½ 26-56- 4-5	Texaco Exploration Company	17,720.00
W.½ 35-56- 4-5	Texaco Exploration Company	17,720.00
N.E.¼ 3-57- 4-5	Pacific Petroleums Ltd.	11,101.01
S.½ 3-57- 4-5	Selburn Oil Co. Ltd.	11,676.00
N.½ 31-86-22-5	Pacific Petroleums Ltd.	156,101.01
S.W.¼ 31-86-22-5	Pacific Petroleums Ltd.	86,101.01
N.W.¼ 33-86-22-5	Pacific Petroleums Ltd.	10,101.01
		$6,061,282.88

PETROLEUM AND NATURAL GAS RESERVATIONS PURCHASED IN PROVINCIAL RESERVES

Description	Offer Accepted from:	Cash Purchase Price
All Township 29, Range 14, West of the 4th Meridian, excepting Section 8, S.W.¼ of Section 12, N.½ of Section 24 and S.½ and N.W.¼ of Sec. 26; All Township 29, Range 15, West of the 4th Meridian, excepting Section 8, and S.½ & N.W.¼ of Section 26; All Township 29, Range 16, West of the 4th Meridian, excepting Section 8 and S.½ & N.W.¼ of Section 26 — 65,280 acres.	Imperial Oil Limited	$ 398,860.80
All Township 30, Range 14, West of the 4th Meridian, excepting Section 8, N.W.¼ of Section 9 and Section 26; All Township 30, Range 15, West of the 4th Meridian, excepting Sections 8 and 26; All Township 30, Range 16, West of the 4th Meridian, excepting Sections 8 and 26—65,120 acres.	Imperial Oil Limited	397,883.20
The West half of Section 4, Sections 5, 6, 7, 8, 18, 19 and 30 and those portions of Section 17 and the West half of Section 9 covered by the waters of Bittern Lake in Township 47, Range 21, West of the 4th Meridian as shown upon a plan of Survey of the said Township dated March 11, 1893. and		

PETROLEUM AND NATURAL GAS RESERVATIONS PURCHASED IN PROVINCIAL RESERVES (Continued)

Description	Offer Accepted from:	Cash Purchase Price
The North half of Section 2, Sections 10, 11, 12, 13, the East half of Section 14, Section 24 and those portions of Sections 1, 23, 25, 26 and 35 covered by the waters of Bittern Lake in Township 47, Range 22, West of the 4th Meridian as shown upon a plan of Survey of the said Township dated June 27, 1893——11,174 acres.	Geo. F. Chadburn	506,492.00
All Township 5, Range 13, West of the 4th Meridian, excepting Sections 8 and 26; All Township 5, Range 14, West of the 4th Meridian, excepting Sections 8 and 26—43,520 acres.	Canadian-Montana Gas Company Limited	18,715.00
All Township 4, Range 12, West of the 4th Meridian, excepting Section 8 and the South half and N.W.¼ of Section 26 — 21,920 acres.	Canadian-Montana Gas Company Limited.	12,276.00
		$1,334,227.00

Reservations.—During the fiscal year 370 reservations were issued covering an area of 21,482,815 acres and at the close of the year 723 reservations were active containing an area of 48,031,832 acres. The revenue from reservation fees amounted to $100,000.00 and for extending reservations amounted to $4,852,612.41.

Credit of not in excess of 50 per cent of the approved expenditures incurred in geophysical examinations including drilling on petroleum and natural gas reservations may apply to the rental for one year of any lease or leases acquired out of the reservation and during the fiscal year under review rentals due the Province amounting to $4,783,903.39 were satisfied from such expenditures.

Natural Gas Licenses.—The order of the Lieutenant Governor in Council establishing the regulations governing the licensing of natural gas rights on January 29, 1951, also provided that the holder of a termination reservation upon indicating to the Department on or before April 2, 1951, that he was prepared to commence the drilling of a well on a lease granted following the reservation, then all or a portion of the area formerly contained in the reservation could be reserved from other disposition until completion of the well. The charge for reserving the area was one cent an acre a month and if the

well determined the presence of natural gas in any zone or zones application could be made for a natural gas license.

Thirty-four areas comprising 1,968,588 acres were reserved from other disposition and during the fiscal year 22 wells were drilled with an aggregate footage of 98,108 feet. Five of the wells determined the presence of natural gas and licenses were applied for.

The holders of some of the areas reserved did not start to drill by the date prescribed for commencement of drilling and at the close of the fiscal year only two reserved areas totalling 29,420 acres were continuing. The results of development on these two areas will be dealt with in the next annual report.

Holders of cancelled reservations on which a gas well had been drilled had the opportunity until April 2, 1951, to apply for a natural gas license and 30 applications were received. In addition, three applications for natural gas licenses were filed by holders of existing reservations.

A well must be commenced three months from the issuing of the license and there must be not more than ninety days between the completion of one well and the commencement of the next.

Wells drilled on natural gas licenses totalled 105 of which 58 were successful and 47 were abandonded.

Thirty-eight natural gas licenses covering an area of 2,615,865 acres were issued during the fiscal year and at the close of the year 28 licenses were active containing an area of 1,779,757 acres. The revenue from fees was $8,750.00 and from rentals and extension charges $291,139.96.

COAL

In the fiscal year, 39 leases were issued containing 3,897 acres, being made up of new and renewal and second renewal leases. There are now 619 active leases comprising 172,435 acres. There were 33 road allowance coal mining leases issued and there are now 135 active. The revenue received from fees was $650.00 and from lease rentals $214,693.94.

Crown royalties collected during the fiscal year were $437,410.85 and the following tonnage of coal, subject to royalty, was mined.

	Tons
Coal Leases	4,293,037
Coal Lands and Mineral Sales	1,130,778
TOTAL	5,423,815

The production of fabri-coal was commenced during the year at Big Valley. Fabri-coal is manufactured by driving the moisture out of coal and binding it into the size and shape of a brick with asphalt. The Big Valley operation is the first of its kind in the Province.

QUARRYING

Five quarrying leases comprising a total of 357 acres were issued during the fiscal year under review, three of which were for the removal of limestone and two for clay.

Extraction of 506,127 tons of limestone and shale from Crown leases was reported and at the close of the fiscal year 17 quarrying leases containing an area of 2,331 acres were active.

All leases for the removal of sand and gravel were transferred to the Department of Lands and Forests, in June, 1951. The leases involved were 46 quarrying leases issued before April 1, 1949 and 60 river sand and gravel and seven sand and gravel leases issued by the Department of Mines and Minerals after that date.

BITUMINOUS SANDS

As a follow up to the report on the technology and economics of the extraction processes developed for the Athabaskan bituminous sands a symposium was held in September of 1951 to which interested parties were invited. At this conference the Department's policy for the development of this resource was presented. The maximum area to be included in a prospecting permit is 50,000 acres with only one permit being allowed to any one person. The term of the permit will be for one year at a rental of five cents per acre. The permit may be renewed for one year at 10 cents per acre and for a further period of a year at 25 cents per acre.

A deposit of $50,000.00 is required to be submitted with the application for a prospecting permit. Providing the permit holder has complied with the requirements of the Department he shall have the right to acquire a lease of the bituminous sands. The nature of the deposit determined by the investigation and the proposed capacity of the plant will be the main factors in determining the acreage that may be acquired under lease.

The bituminous sands prospecting permit in the vicinity of Bitumount was renewed for a further year and the lease in the Mildred and Ruth Lake area is still in force.

QUARTZ

Forty new claims were recorded during the year, 18 of which are in the Whitecourt area, 16 in the Livingstone Mountain range, four northwest of Lake Athabaska, one in the Lacombe area and one in the Peace River area. Nineteen existing claims were continued for a further year. The claim in the Drumheller district for the recovery of bentonite was one of those continued.

PLACER

Nine placer claims were recorded and two were renewed for another year. No recovery of gold was reported during the year.

SODIUM CHLORIDE (Common Salt)

This fiscal year the salt plant at Waterways, reported extraction of 26.75 tons of salt before final closing down of the plant and the plant near Lindbergh reported extraction of 20,484 tons.

SULPHUR

The sulphur prospecting permit issued to Bradley Oil Corporation Ltd. was renewed and another permit of 99,613 acres was issued to Holdings Administrators Ltd. during this year. Both permits are located about thirty miles northwest of the Town of Athabaska.

SPECIAL PERMITS

The permit for the collection of bitumen issuing from an old well in the Peace River district was again renewed. Collection of 380 gallons was reported during the year under review.

DRILLING STATISTICS

The drilling and production of petroleum and natural gas wells in the Province are adminstered by The Petroleum and Natural Gas Conservation Board, 514 Eleventh Avenue West, Calgary, Alberta, and particulars as to drilling activity, production and statistical data are included in weekly, monthly and annual reports issued by the Board.

STAFF

During the year a number of changes were made in the staff. Mr. E. P. Shaver, Assistant Director of Mineral Rights accepted a position in the Department of Lands and Forests and was replaced by Mr. Robert A. Seaton. Mr. A. E. Kynnersley succeeded Mr. Seaton as Supervisor of Revenue.

The Division is subdivided for administrative purposes, into four branches supervised by the Supervisor of Leases and Mining Recorder for the Edmonton district—Mr. D. F. Morrison; the Supervisor of Revenue—Mr. A. E. Kynnersley; the Mining Recorder for the Calgary district—Mr. A. Z. Choquette; and the Chief Clerk—Mr. W. McGechie.

These supervisors and their staffs which numbered 35 employees at the close of the fiscal year continued to give the same conscientious and capable service that they have given in the past.

Mineral Taxation Division

Report of the Chief Assessor

E. F. Gilker

The fiscal year under review completes an eleven year period in the assessment and taxation of minerals by the Department of Lands and Mines until March, 31st, 1949, and thereafter by the Department of Mines and Minerals. During this period the revenue increased from $75,120.93 in the fiscal year ending March 31st, 1942, to $769,799.72 in the year ending March 31st, 1952.

In the year 1941 the Legislature enacted The Mineral Taxation Act, 1941, which, with minor amendments, was in force until the year 1945. This Act provided for the taxation of all minerals except coal and provided for assessment of minerals being produced or included in lands within the boundaries of a producing area specified by the Minister. Each owner of minerals located outside of producing areas was required to report to the Department of Lands and Mines before the first day of September each year all parcels in which he held a mineral title. The tax for the years 1941 to 1944 inclusive was ½c an acre a year.

Minerals in producing areas were subject to assessment and taxation and the Assessor appointed who was to make the assessment was the Assessor of The Petroleum and Natural Gas Conservation Board. Preparation of the assessment roll and the mailing of assessment notices were left entirely with the Board. Revisions of assessment were heard by the Board with the proviso that any person who was dissatisfied with the revision had the right to appeal to the Alberta Assessment Commission. The assessment roll was forwarded to the Department after revision and appeal and the Department was then responsible for the levy of a tax and the mailing of tax notices.

While provision was made in The Mineral Taxation Act for the Minister to declare certain areas of the Province subject to assessment, only Turner Valley was assessed as a producing area for the years 1941 to 1944 inclusive and the rate of taxation was two mills each year.

In 1945 a new Mineral Taxation Act was enacted repealing the 1941 statute and the new statute included coal as well as all other minerals. The assessment of minerals in the producing area by The Petroleum and Natural Gas Conservation Board was discontinued and the assessment was performed by an assessor appointed by the Department of Lands and Mines. This statute continued for 1945 and 1946 with a tax of 1c an acre on all minerals in the Province in 1945 and 1½c an acre in 1946. Assessment of producing areas was continued and the rate of tax in 1945 was four mills and in 1946 the rate was six mills.

Six new areas, Viking, Kinsella, Medicine Hat-Redcliff, Cascade, Crowsnest-Pincher and Lethbridge were designated

producing areas in 1945 in respect to minerals being produced in such areas.

The statute was amended and consolidated at the 1947 session of the Legislature and this statute is still in operation. The consolidation made provision for the principal mineral in producing areas to be named and defined a schedule to be followed in the assessment of petroleum, natural gas and coal.

The fair actual value for the purpose of assessment in any year of the petroleum within, upon or under the land allocated by the Minister to a well producing petroleum or petroleum and natural gas shall be one and one-half times the value at the average field price during the first three months of the year in which the assessment is made of all petroleum produced from the well during the preceding year and for natural gas four times the value at three cents per thousand cubic feet of the natural gas produced from the well during the preceding year and for coal an amount equal to three times the value at ten cents per ton of all coal recovered from the tract in the year immediately preceding the year of the assessment.

In the year 1947 Lloydminister and Vermilion were added as petroleum producing areas and it was not until the year 1948 that petroleum in the Leduc area was brought under assessment. The year 1949 included the Redwater area and in 1950 Conrad, Taber, Whitemud and Woodbend were included and in the year 1951 Acheson and Campbell.

In applying the schedule in the assessment of petroleum and natural gas the Act stipulates that the Minister may from time to time by order published in *the Alberta Gazette* allocate to a producing well any specified area for the purpose of computing the value in accordance with the schedule. The list of areas allocated to new producing wells are published each year in *the Alberta Gazette* indicating the name of the well and the legal description.

The acreage tax and the mill rate are established by Order in Council and in the year 1947 the acreage tax was established at 1½c per acre and the mill rate at eight mills on the dollar and have remained the same for the years 1948 to 1951 inclusive.

The Division is making steady progress in the mailing of registered notices to owners of minerals and during the fiscal year 1,600 notices were mailed. Within 30 days of mailing of the registered notices if taxes are not paid a notification is filed in the Land Titles Office. Payment must be made within one year from the date of mailing of the registered notice to avoid tax forfeiture. Many owners pay their taxes before the notification is filed with others paid within the year. Those paying taxes after the filing of the notification must pay a fee of $3.00 to discharge the notification. The fee is forwarded to the Land Titles Office for the discharge and during the fiscal year 920 discharges were filed.

The Division is also required to furnish a statement of taxes due and owing on request and for this service there is a fee charged of 50c for a Mineral Tax Certificate and during the fiscal year issued 4,640 Certificates.

For the fiscal year the Department acquired through voluntary transfer and tax forfeiture the following minerals.

April 1st, 1951 to March 31st, 1952.	Petroleum	Natural Gas	Coal	Other Minerals
Voluntary Transfer				
TOTAL ACREAGE	Nil	3,045.	Nil	7,845.
Non-Payment of Mineral Tax				
TOTAL ACREAGE	17,241.	54,656.21	10,034.61	66,001.03

The revenue derived from the taxation of freehold minerals has increased steadily from the year 1941, however, due to limited markets and the decrease in the price of crude oil the revenue shows a decrease from the previous year of $63,292.51. It is anticipated that the revenue for the next fiscal year will show a substantial gain. The following is a comparative statement of the revenue of taxes from the year 1941.

Year	Producing Area	Acreage Tax	Fees	Total
1941-1942	24,532.61	$50,588.32		$75,120.93
1942-1943	27,463.60	66,901.08		94,364.68
1943-1944	40,308.01	61,767.14		102,075.15
1944-1945	31,255.85	61,527.44		92,783.29
1945-1946	71.80	160,054.33		160,126.13
1946-1947	125,742.91	231,062.93		356,805.84
1947-1948	179,694.16	294,039.82	$101.00	473,834.98
1948-1949	290,170.08	275,773.89	125.50	566,069.47
1949-1950	452,838.16	297,883.10	286.50	751,007.76
1950-1951	526,029.61	307,062.62	511.00	833,092.23
1951-1952	444,293.91	323,185.71	2,320.10	769,799.72
				4,275,080.18

For assessment purposes the Province is divided into Northern and Southern districts and in addition to the assessment of minerals the Assessor for each district assisted in investigating and settling damage claims arising from Seismic operations. The Mineral Tax Division prepares the Assessment Roll and the mailing of assessment and tax notices. The staff consisting of 19 members also assists in dealing with correspondence and the issue of receipts and tax certificates.

Technical Division

Report of the Superintendent of the Technical Division,
H. B. Grove

As a result of the steadily increasing volume of routine work togther with the revived interest in the Athabasca oil sands, the institution of natural gas licensing and the revision of the designation of school minerals, the year under review can be summarized as one of rapid expansion in the activities of all branches of the Technical Division.

DRAUGHTING, LEGAL DESCRIPTIONS AND GENERAL

During the year the Department published its first lithographed map. This map of the Province, on a scale of sixteen miles to the inch, shows palaeozoic topography and formations in eight colours with the elevation of the top of the palaeozoic indicated by the use of contours at one hundred feet intervals. The map was drawn by this Division from information compiled by The Petroleum and Natural Gas Conservation Board. Copies of the map are available at the office of the Conservation Board in Calgary and the Department of Mines and Minerals in Edmonton.

As a result of the five areas applied for under bituminous sands prospecting permits, it was necessary to redraught the map of the Athabasca Oil Sands areas showing additional territory. The map now covers Townships 87 to 98 inclusive and Ranges 6 to 13 inclusive, West of the 4th Meridian and was drawn on tracing cloth to a scale of three miles to an inch. Ozalid prints were obtained and dispositions and applications of bituminous sands shown in colour. Copies were supplied to oil firms and individuals interested in the development of the oil sands.

The map of the Leduc-Woodbend area was redrawn covering a larger area and now includes the Wizard Lake, Golden Spike, Whitemud and Glen Park fields and extends from Township 48 to Township 51 and from the centre of Range 25 to the centre of Range 27, West of the 4th Meridian. An improved feature of the new map is that well symbols indicate the production zone for each well. The Petroleum and Natural Gas Conservation Board was supplied with a photographic copy on linen tracing cloth.

The demand for copies of the various oil field maps for sale to the public and for departmental use increased sharply. A total of 2,716 maps were distributed as against 984 for the previous year, an increase of 1,732.

Over twenty-two thousand copies of Petroleum and Natural Gas Reservation sketches were prepared and mailed to individuals and companies subscribing to the weekly service which entitles a subscriber to a sketch of each new reservation issued.

and each reservation amended, cancelled or converted to lease. At the close of the year there were 47 subscribers compared to 39 at the end of the previous year. The practice of supplying photostat reproductions was discontinued due to the time involved in obtained the required number of copies. The subscribers are now supplied with ozalid prints which can be produced more expeditiously than photostat copies.

Each application for a license to drill a well is recommended to the Department by The Petroleum and Natural Gas Conservation Board. During the year 1,552 applications were received and this Division determined the ownership of minerals in the spacing unit for each well. A record of the drilling progress of each well is maintained by this Division which obtains the information from The Petroleum and Natural Gas Conservation Board weekly reports.

Legal descriptions were prepared for 91 coal mining and road allowance leases, 6,170 petroleum and natural gas leases, 370 petroleum and natural gas reservations, 38 natural gas licenses, 5 quarrying leases and 11 notifications as well as descriptions for a number of recommendations to council and miscellaneous agreements, making a total of approximately 6,700, an increase of 2,200 over the previous year.

When a township is surveyed, sections eleven and twenty-nine are set apart as an endowment for purposes of education and are designated School Lands. Following World War II it was decided to make some of these lands available to veterans for settlement and to select other lands in the Province as School Land. It was thought advisable to make no change in the mineral status of the lands affected. Consequently, The Mines and Minerals Act was amended to define School Minerals as the minerals within School Lands as at March 26th, 1946, being the day these lands were made available to veterans for settlement, and sections eleven and twenty-nine in all townships surveyed thereafter. As 1,200 parcels were involved it was necessary to amend the designation of each parcel throughout the township registers and, where a disposition had been made, to re-calculate the allocation of School Minerals.

Ozalid and photostat prints required by the Department were obtained from the Technical Division, Department of Lands and Forests.

During the year 390 mimeograph stencils were cut and 99,700 copies run off compared to 415 stencils and 81,500 copies in the fiscal year ending March, 1951.

Included in this report is a map of Alberta showing the areas for which petroleum and natural gas reservations have been issued to March 31, 1952.

In addition, the Division was called upon to prepare maps and charts for the Petrolum and Natural Gas Conservation Board Gas Export Report and to assist in preparing for the Athabasca

Oil Sands Conference held in September, 1951, by supplying coloured maps of the oil sands area to familiarize the delegates with the territory and aid in giving a comprehensive picture of the lands involved.

RECORDS

The Records Branch supply township plots to the public indicating available Crown minerals and also plots showing the status of Crown mineral rights. In this connection 22,614 township plots showing petroleum and natural gas rights were distributed compared to 7,429 in the previous year.

In addition to the work completed as shown in the tables hereunder it was necessary to expand our township records by the addition of township plans, application sheets and disposition sheets showing natural gas only for all townships contained in applications for natural gas licenses.

*DISPOSITIONS, CANCELLATIONS AND ASSIGNMENTS RECORDED IN THE TOWNSHIP REGISTERS

	1950-51	1951-52
Coal Mining Leases	176	173
Petroleum and Natural Gas Leases	5,341	7,130
Petroleum and Natural Gas Rseervations	430	569
Quarrying Leases	5	57
Notifications	15	11
Assignments	1,293	2,978
Bituminous Sands Prospecting Permit		1
River Sand and Gravel Leases	41	
Sand and Gravel Leases	6	
Natural Gas Licenses		49
TOTAL	7,307	10,968

*Includes issued, reinstated, divided and renewed.

ASSIGNMENTS REGISTERED

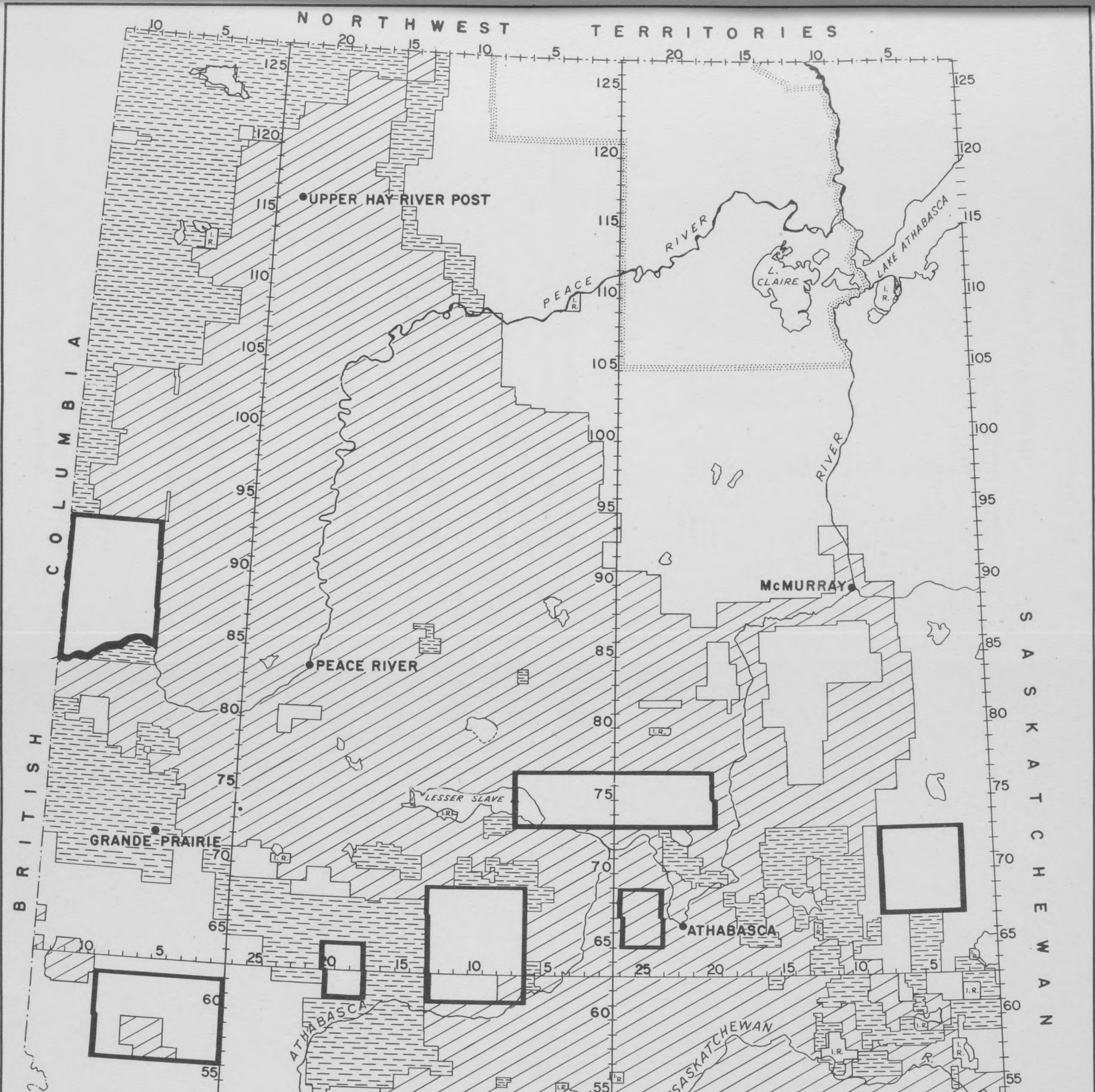
	1950-51	1951-52
Petroleum and Natural Gas	1,228	2,860
Coal	60	110
Quarrying	4	3
Salt	1	1
Gas Licenses		3
Sulphur Prospecting Permit		1
TOTAL	1,293	2,978

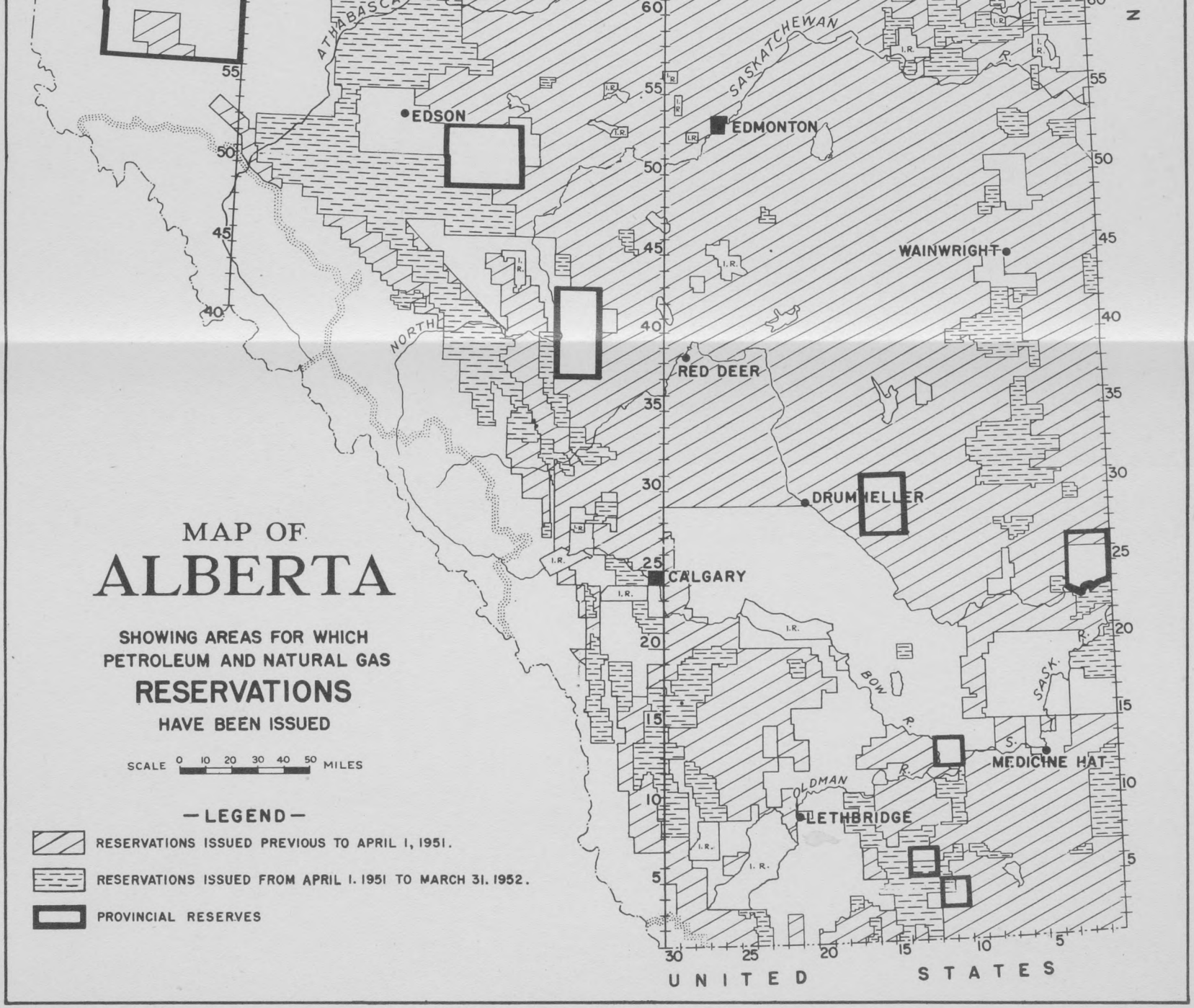
DOCUMENTS FILED

	1950-51	1951-52
Mechanic's Liens	37	27
Miscellaneous Documents		1
TOTAL	37	28

FILING

A comparison of the filing activity during the year under review and the previous year is shown on the following schedule of files cancelled and new files opened.


NORTHWEST TERRITORIES
BRITISH COLUMBIA
SASKATCHEWAN
UPPER HAY RIVER POST
PEACE RIVER
GRANDE PRAIRIE
McMURRAY
ATHABASCA
PEACE RIVER
LAKE ATHABASCA
L. CLAIRE
LESSER SLAVE
ATHABASCA
SASKATCHEWAN
I.R.


MAP OF
ALBERTA
SHOWING AREAS FOR WHICH
PETROLEUM AND NATURAL GAS
RESERVATIONS
HAVE BEEN ISSUED
SCALE 0 10 20 30 40 50 MILES
—LEGEND—
RESERVATIONS ISSUED PREVIOUS TO APRIL 1, 1951.
RESERVATIONS ISSUED FROM APRIL 1. 1951 TO MARCH 31. 1952.
PROVINCIAL RESERVES
EDSON
EDMONTON
WAINWRIGHT
RED DEER
DRUMHELLER
CALGARY
MEDICINE HAT
LETHBRIDGE
SASKATCHEWAN
ATHABASCA
NORTH
OLDMAN
BOW
SASK.
I.R.
UNITED STATES

FILES CANCELLED AND NEW FILES OPENED

	Opened 1950-51	Cancelled 1950-51	Opened 1951-52	Cancelled 1951-52
Leases, Reservations, Permits, etc.	5,959	1,535	6,421	2,068
Company	75	.....	94	.....
Coal Royalty	.....	.....	14	8
General	75	.....	172	.....
Alienated	83	.....	32	.....
School Lands	.....	.....	.....	6
Mining Land Deposits	136	.....	152	.....
Unit	.....	.....	1	.....
Farm Gas Wells	1	.....	4	.....
Structure Tests	6	.....	6	.....
Water Wells	8	.....	2	.....
Petroleum and Natural Gas Royalty	647	.....	564	.....
Unearned Increment Tax	17	.....	67	.....
Battery	.....	.....	177	.....
Group	.....	.....	5	.....
Mining Land Oil Purchase	11	.....	4	.....
Geophysical License	196	196	245	5
Geophysical License Deposits	46	.....	18	.....
TOTAL	7,260	1,731	7,978	2,087

NOTIFICATIONS

Eleven notifications for the issue of certificates of title were issued, mainly completing exchanges of minerals with freehold owners. The exchanges were authorized by orders-in-council to bring about more orderly development of mineral resources held by the Crown and the freehold owners.

Of eleven notifications issued, three granted all minerals except coal, gold and silver, four granted all minerals other than gold and silver and four granted petroleum and natural gas only.

During the three years of the operation of the Department, thirty-three notifications for minerals have been issued.

REVISED MINERALS

During the year the Minister of Mines and Minerals received title to minerals in 303 parcels. 9 being through exchange of minerals, 13 through voluntary transfers, and 281 through non-payment of mineral tax.

The acreage of the various minerals revested in the Crown in the right of the Province of Alberta as represented by the Minister of Mines and Minerals is shown in the following schedule, together with the acreage previously acquired.

SCHEDULE OF REVISED MINERALS

	Petroleum Acres	Natural Gas Acres	Coal Acres	Other Minerals Acres
Voluntary Transfer				
As on March 31, 1951. ..	23,368.31	75,123.65	708,942.35	82,415.05
From April 1, 1951, to March 31, 1952	Nil	3,045.00	Nil	7,845.00
	23,368.31	78,168.65	708,942.35	90,260.05
Non-Payment of Mineral Tax as on March 31, 1951	67,859.98	211,981.78	29,928.10	220,866.08
From April 1, 1951, to March 31, 1952	17,241.00	54,656.21	10,034.61	66,001.03
	85,100.98	266,637.99	39,962.71	286,867.11
Revested other than voluntary Transfer and Non-Payment of Mineral Tax as on March 31, 1951	200,082.93	212,958.21	126,810.84	214,581.38
From April 1, 1951, to March 31, 1952	341.00	341.00	222.30	236.00
	200,423.93	213,299.21	127,033.14	214,817.38
Total as on March 31, 1951 ..	291,311.22	500,063.64	865,681.29	517,862.51
Increase	17,582.00	58,042.21	10,256.91	74,082.03
Total as on March 31, 1952 ..	308,893.22	558,105.85	875,938.20	591,944.54

As of March 31, 1952, the total acreage, contained in titles to a mineral or minerals revested to the Crown in the right of the Province of Alberta as represented by the Minister of Mines and Minerals, was 1,336,657.

Accounting Division

Report of the Administrative Accountant,

W. E. Shillabeer

A surplus of $40,858,596.27 on Income Account was shown for the fiscal year ending March 31st, 1952.

Net Revenue on Income Account amounted to $41,465,841.14.

Gross Receipts from all sources amounted to $48,214,032.32.

Expenditure on Income Account for the year amounted to $607,244.87. Particulars of expenditure may be found in Statement "C".

As at March 31st, 1952, there were 20,909 Accounts Receivable as compared with 15,995 as at March 31st, 1951. The number of active accounts as at March 31st, 1952, is made up as follows:

	No. of Accounts
Petroleum and Natural Gas Leases, Rental	15,947
Petroleum and Natural Gas Leases, Royalty	735*
Petroleum and Natural Gas Reservations	870
Coal Leases, Rental	808
Coal Leases, Royalty	241
Mineral Tax (Producing Area)	1,937
Unearned Increemnt Tax	246
Mining Leases (Miscellaneous)	125
	20,909

*A 1951 amendment to "The Oil and Gas Resources Conservation Act, 1950" permitted the reporting of production by battery or group of wells, this resulted in 1,300 royalty accounts being closed out during the year and as at March 31st, 1952, 175 battery accounts were recording royalty returns on approximately 1,500 wells.

There were 2,661 accounts cancelled, closed transferred or paid in full and 7,575 new accounts opened.

INDEX TO STATEMENTS

A. Statement of Receipts from all Sources.

B. Statement of Receipts—Income Account.

C. Statement of Expenditure by Appropriation and Character.

D. Statement of Net Receipts by Divisions.

E. Statement of Receipts—School Lands.

F. Statement of Receipts and Expenditures.

G. Statement of Provincial Land Revenue by Fiscal Years Received by the Province for the Period April 1st, 1949 to March 31st, 1952.

H. Statement of School Minerals Revenue by Fiscal Years Received by the Province for the Period April 1st, 1949 to March 31st, 1952.

STATEMENT A

STATEMENT OF RECEIPTS FROM ALL SOURCES

From April 1st, 1951 to March 31st, 1952

	Gross Receipts	Refunds	Net Receipts
Income Account	$41,556,580.75	$ 90,739.61	$41,465,841.14
Reimbursement of Previous Year's Expenditure	1,272.89	.....	1,272.89
Unapplied Receipts Carried Forward (Subject to Refund) Suspense	6,656,178.68	5,762,243.90	893,934.78
	$48,214,032.32	$5,852,983.51	$42,361,048.81

STATEMENT B

STATEMENT OF RECEIPTS INCOME ACCOUNT

From April 1st, 1951 to March 31st, 1952

INCOME ACCOUNT:	Gross Receipts	Refunds	Net Revenue
MINING LANDS:			
Coal Rentals, Fees, etc.	$ 214,481.57	$ 2,898.68	$ 211,582.89
Coal Royalties	394,441.24	.....	394,441.24
Coal Mines Act Sundry Revenue	5,217.45	8.00	5,209.45
Petroleum & Natural Gas Rentals, Fees, etc.	14,161,554.65	26,882.40	14,134,672.25
Petroleum & Natural Gas Royalties	10,062,772.17	.....	10,062,772.17
Purchase Price for Leases	12,518,272.33	341.00	12,517,931.33
Mining Miscellaneous	60,777.13	2,657.33	58,119.80
SCHOOL LANDS:			
Coal Rentals, Fees, etc.	3,841.05	80.00	3,761.05
Coal Royalties	42,969.61	.....	42,969.61
Petroleum & Natural Gas Rentals, Fees, etc.	1,248,994.90	3,117.35	1,245,877.55
Petroleum & Natural Gas Royalties	1,029,050.98	53,733.78	975,317.20
Purchase Price for Leases	693,357.64	.....	693,357.64
Mining Miscellaneous	4,333.15	.....	4,333.15
MINERAL TAXATION ACT:			
Mineral Tax	770,360.89	561.17	769,799.72
UNEARNED INCREMENT TAX	283,897.27	147.60	283,749.67
MISCELLANEOUS (Casual)	62,258.72	312.30	61,946.42
TOTAL INCOME ACCOUNT (Carried to Statement A)	$41,556,580.75	$90,739.61	$41,465,841.14

STATEMENT D

STATEMENT OF NET RECEIPTS BY DIVISIONS

For Fiscal Year Ending March 31, 1952

INCOME ACCOUNT:	
Mineral Rights Division	$40,345,135.88
Mineral Taxation Division	769,799.72
Mines Division	5,209.45
Unearned Increment Tax	283,749.67
Miscellaneous (Administration Sundry Revenue, Reimbursements)	61,946.42
TRANSFERRED TO OTHER DEPARTMENTS	1,272.89
UNAPPLIED RECEIPTS CARRIED FORWARD:	
Suspense	893,934.78
	$42,361,048.81

STATEMENT C

EXPENDITURE CLASSIFIED BY APPROPRIATIONS AND CHARACTER
FOR THE YEAR ENDED MARCH 31st, 1952
INCOME ACCOUNT

SERVICE	2001 Minister's Office	2002 Deputy Minister's Office	2003 Accounts Division	2004 Advisory Board	2005 Geological Division	2006 Mines Division	2007 Mineral Rights Division	2008 Mineral Taxation Division	2009 Petroleum & Natural Gas Cons. Board	2010 Technical Division	2011 Postage	2012 Printing, Stationery & Office Supplies	2013 Administration Gas Resources Preservation Act	2014 Right of Entry Arbitration Board	Special Warrants No. 45	TOTALS
Advertising	$.....	$.....	$.....	$.....	$.....	$.....	$4,848.12	$.....	$.....	$.....	$.....	$.....	$166.51	$.....	$.....	$5,014.63
Automobiles	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Books and Binding	.....	195.51	2.85	.....	.....	50.45	55.21	10.76	.....	357.43	.....	.....	.....	11.81	.....	684.02
Equipment	.....	935.00	7,055.48	.....	.....	23.15	1,089.99	465.04	.....	322.53	.....	.....	.....	180.91	.....	10,072.10
Examinations	.....	.....	.....	.....	.....	1,261.65	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,261.65
Fees and Commissions	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Freight, Express and Cartage	.....	13.47	6.62	.....	.....	33.41	94.49	9.50	.....	18.09	.....	.....	.....	.....	.....	175.58
Grants	.....	.....	.....	.....	.....	.....	.....	30,459.75	.....	.....	.....	.....	.....	.....	4,000.00	34,459.75
Legal Fees and Expenses	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,698.70	.....	.....	7,698.70
Miscellaneous Supplies and Expenses	1.73	56.91	88.67	.....	10.19	75.30	312.99	18.67	148,552.75	10,248.72	.....	.....	.....	13.53	.....	159,379.46
Newspapers and Periodicals	3.00	61.26	3.00	.....	.....	19.72	28.20	6.00	.....	.....	.....	.....	.....	6.00	.....	127.18
Postage	100.00	.....	.....	.....	.....	112.34	.....	.....	.....	.....	5,284.82	.....	.....	288.73	.....	5,785.89
Printing and Stationery	95.81	.....	.....	.....	.....	4,903.02	.....	.....	.....	.....	.....	17,732.93	.....	314.41	.....	23,046.17
Rates, Rentals and Insurance	68.61	.....	.....	.....	.....	73.76	.....	.....	.....	.....	.....	.....	.....	74.78	.....	217.15
Repairs and Replacements	56.82	106.04	409.75	.....	.....	303.47	314.89	393.14	.....	112.35	.....	.....	.....	284.32	.....	1,980.78
Salaries	6,308.00	18,584.72	47,378.79	.....	3,100.42	61,764.47	84,631.73	38,149.38	.....	55,036.30	.....	.....	.....	20,835.15	.....	335,788.96
Special Services	.....	7.50	.....	.....	.....	14.11	.....	.....	.....	.....	.....	.....	979.20	.....	.....	1,000.81
Telegrams and Telephones	254.84	514.38	44.75	.....	.....	452.85	1,448.57	539.64	113.40	250.58	.....	.....	.....	45.48	.....	3,664.49
Travelling Expenses	189.24	782.80	60.00	56.25	.....	8,211.67	3,953.96	1,684.99	.....	69.74	.....	.....	1,581.65	297.25	.....	16,887.55
TOTAL: Income Account	$7,078.05	$21,257.59	$55,049.91	$56.25	$3,110.61	$77,299.37	$96,778.15	$71,736.87	$148,666.15	$66,415.74	5,284.32	$17,732.93	$10,426.06	$22,352.37	$4,000.00	$607,244.87

CAPITAL ACCOUNT

Service	2080 Abandonment of Mining Properties	Total
Contract Labour	1,298.00	1,298.00
TOTAL: Capital Account	1,298.00	1,298.00

STATEMENT E

STATEMENT OF RECEIPTS—SCHOOL LANDS

From April 1, 1951 to March 31, 1952

INCOME ACCOUNT:

	Receipts	Refunds	Net Revenue
Coal Rentals, Fees, etc.	$ 3,841.05	$ 80.00	$ 3,761.05
Coal Royalties	42,969.61	.....	42,969.61
Petroleum & Natural Gas Rentals, Fees, etc.	1,248,994.90	3,117.35	1,245,877.55
Petroleum & Natural Gas Royalties	1,029,050.98	53,733.78	975,317.20
Purchase Price for Leases	693,357.64	.....	693,357.64
Mining Miscellaneous	4,333.15	.....	4,333.15
	$3,022,547.33	$56,931.13	$2,965,616.20

STATEMENT F

STATEMENT OF RECEIPTS AND EXPENDITURE

For Fiscal Year Ending March 31, 1952

Gross Receipts	Refunds	Net Receipts	Net Revenue on Income Account	Total Expenditures From Appropriations	Surplus on Income Acct.
$48,214,032.32	$5,852,983.51	$42,361,048.81	$41,465,841.14	$607,244.87	$40,858,596.27

STATEMENT G

STATEMENT OF PROVINCIAL LAND REVENUE BY FISCAL YEARS RECEIVED BY THE PROVINCE FOR THE PERIOD APRIL 1st, 1949 TO MARCH 31st, 1952

	1949-50	1950-51	1951-52	Total
COAL				
Fees and Rentals	$185,412.49	$174,035.27	$211,582.89	$571,030.65
Royalties	600,493.96	577,667.84	394,441.24	1,572,603.04
Sundry Revenue	6,183.50	5,335.30	5,209.45	16,728.25
PETROLEUM AND NATURAL GAS				
Fees and Rentals	5,741,111.95	9,034,896.06	14,134,672.25	28,910,680.26
Royalties	3,368,918.86	4,760,569.46	10,062,772.17	18,192,260.49
Crown Sales	23,180,998.77	28,008,052.42	12,517,931.33	63,706,982.52
SALT				
Fees and Rentals	564.00	3,129.00	1,005.60	4,698.60
Royalties	2,024.92	9,230.96	4,895.32	16,151.20
QUARRYING				
Fees and Rentals	1,019.31	1,176.72	291.28	2,487.31
Royalties	29,939.08	36,486.29	27,908.36	94,333.73
SAND, STONE AND GRAVEL				
Fees and Royalties	7,665.35	10,287.45	.....	17,952.80
QUARTZ				
Fees and Royalties	377.56	630.00	853.47	1,861.03
PLACER AND BAR DIGGINGS				
Fees and Royalties	.....	325.08	42.79	367.87
BITUMINOUS SANDS				
Fees, Rentals and Royalties	13,350.28	7,173.20	7,173.20	27,696.68
MISCELLANEOUS LEASES				
Fees, Rentals and Royalties	24,766.31	43,253.19	15,949.78	83,969.28
MINERAL TAX				
Non-Producing Area Tax	297,883.10	307,062.62	323,185.71	928,131.43
Producing Area Tax	452,838.16	526,029.61	444,293.91	1,423,161.68
Certificate Fees	286.50	511.00	2,320.10	3,117.60
REGISTRATION OF ASSIGNMENT TAX	185,833.42	73,245.56	283,749.67	542,828.65
ADMINISTRATION SUNDRY REVENUE	21,915.60	34,734.13	61,946.42	118,596.15
TOTAL	$34,121,583.12	$43,613,831.16	$38,500,224.94	$116,235,639.22

STATEMENT H

STATEMENT OF SCHOOL MINERALS REVENUE BY FISCAL YEARS RECEIVED BY THE PROVINCE FOR THE PERIOD APRIL 1st, 1949 TO MARCH 31st, 1952

	1949-50	1950-51	1951-52	Total
COAL				
Fees and Rentals	$ 6,313.28	$ 6,965.91	$ 3,761.05	$ 17,040.24
Royalties	51,074.51	45,643.83	42,969.61	139,687.95
PETROLEUM AND NATURAL GAS				
Fees and Rentals	514,065.59	744,745.23	1,245,877.55	2,504,688.37
Royalties	242,199.47	429,423.19	975,317.20	1,646,939.86
Crown Sales	50,449.43	1,072,579.97	693,357.64	1,816,387.04
SAND, STONE AND GRAVEL				
Fees and Royalties	.....	.....	2,752.10	2,752.10
BITUMINOUS SANDS				
Fees, Rentals and Royalties	1,845.00	565.00	565.00	2,975.00
MISCELLANEOUS LEASES				
Fees, Rentals and Royalties	.....	3,896.01	1,016.05	4,912.06
TOTAL	$865,947.28	$2,303,819.14	$2,965,616.20	$6,135,382.62

Right of Entry Arbitration Board

N. G. Meldrum, Chairman

Originally when a man bought or homesteaded Crown land, the minerals went with the surface. Since farming was the main interest of the new settlers, the existence of minerals was commonly ignored. Until 1902, the railways which had received grants of land for railway construction, freely disposed of the surface with all minerals except coal. The Hudson's Bay Company disposed of the surface rights of its holdings with all minerals until 1908.

Commencing November 1st, 1887, the Department of the Interior of the Federal Government which then administered the lands and natural resources of the Northwest, instituted the policy of reserving mines and minerals and the right to work them and to take such land as was necessary for this purpose.

As a consequence of these policies, it follows that the surface and minerals for the same area seldom have the same ownership. The original reservation of minerals to the Crown reserved full power to work the minerals and for this purpose to enter upon and use and occupy the surface of the lands or so much thereof and to such an extent as may be necessary for the effectual working of the minerals. However, this left for private arrangement or decision of the courts the specific portion of the surface necessary for the effectual working of the minerals and the assessment of damages to improvements of the surface owner.

Under the first regulations regarding right of entry which were established in 1931 and under our present Right of Entry Arbitration Act, passed in 1947, if the operator of the minerals is unable to come to agreement with the surface owner regarding the amount of compensation to be paid and the extent of the surface area required for mineral development, the matter is referred to the Board of Arbitrators, appointed pursuant to the Statute, for decision.

Prior to April 1st, 1951, the administration of the Act was the responsibility of the Attorney-General. Since that date it has been the responsibility of the Minister of Mines and Minerals. The Board as first organized in 1947, consisted of one member who was chairman, one clerk and one stenographer. An additional board member was appointed in 1950 and additions were made to the staff as the work of the Board increased as a result of oil exploration and development.

Primarily its function is to grant right of entry to an operator upon land where use of the surface is required for the removal of minerals contained in or underlying such land or for or incidental to any mining or drilling operations. If an operator does not come to terms with the owner of the land for use and occupancy of the surface, the Act requires him to make application to the Board for right of entry and it sets out how the Board

is to proceed in the matter. The Board will hear the application and if it deems proper to do so may grant the application upon the operator providing security sufficient in the opinion of the Board to protect all the rights and privileges of the owner and occupant of the surface. In the case of drilling operations it will, in some instances, await the completion of drilling and the installation of production equipment where production has been obtained to make an inspection of the premises and determine the damage to the surface, the value of the land and any other factors that may enter into the situation. It will then issue an order awarding compensation to the person or persons entitled to receive it and determine other matters that may come within its jurisdiction. An award and order of the Board made in writing is final and there is no appeal therefrom but the Board may review, rescind, change, alter or vary any decision or order made by it.

In addition to privately owned land the Board is required to take care of all cases where entry is required on land held by the Crown, whether occupied or not. It is mandatory for an operator to apply to the Board for right of entry upon the surface of such lands and the Board proceeds to grant the application and determine the compensation to be paid.

It should be noted that the Board is concerned not only with oil and gas drilling but coal mining, quarrying and other mining operations that require the use of the surface. Geophysical operations including seismic, gravity meter, magnetometer operations and core hole drilling do not come under the jurisdiction of the Board. Such operations may be carried out on private or Crown property only with the consent of the owner or occupant thereof.

The following is the number of orders issued by the Board in the years 1947 to 1951 inclusive:

Year	No. of Orders Issued
1947	50
1948	155
1949	332
1950	585
1951	656